



McHenry County Department of Health
Notifiable Conditions Report
2018

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INTRODUCTION

The McHenry County Department of Health (MCDH) Communicable Disease (CD) program collects monthly report data on all Illinois Reportable Diseases as defined by the Illinois Department of Public Health (IDPH). This report summarizes the incident cases of all IDPH notifiable conditions during 2018. The frequency of incident cases are reported for each month. Incident cases include both probable and confirmed cases. Summary statistics for each notifiable condition are reported and include: annual total and annual rate. The definition (and calculation) of these summary statistics can be found below. Reportable conditions are separated by disease category: arboviral infections, gastrointestinal illnesses, sexually transmitted infections, tick borne diseases, vaccine preventable diseases, and other diseases.

DEFINITION OF TERMS

Incident Case

Incident cases are all newly diagnosed cases in a given timeframe. The frequency of incident cases for each month for the current year are presented in the tables below.

Annual Total

The annual year-to-date total (**2018 Total**) represents the frequency of new cases that occurred during 2018. It is calculated for each condition as the sum of the frequency of incident cases for all months. The annual totals for each disease category are also reported.

Annual Rate

The annual rate (**2018 Rate**) is reported for each condition (and disease category) as the annual rate of disease per 100,000 population. It can be interpreted as the number of incident cases per 100,000 residents of McHenry County. It is calculated as the annual total divided by the population of McHenry County during 2018 (based on the US Census Bureau, 2013-2017 ACS 5-year Estimates for McHenry County: 308,043 people) multiplied by 100,000; this is represented mathematically as:

$$2018 \text{ Rate} = \frac{2018 \text{ Total}}{308,043} * 100,000$$

ARBOVIRAL INFECTIONS

Two arboviral infections were reported in 2018. The annual rate of all arboviral infections was 0.6 cases per 100,000 residents of McHenry County. Table 1 summarizes the frequency of incident cases of all arboviral infections for 2018.

Table 1. Arboviral Infections

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2018 Total	2018 Rate
California Encephalitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Chikungunya Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Dengue Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
St. Louis Encephalitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
West Nile: Neuroinvasive	0	0	0	0	0	0	1	0	0	0	0	0	1	0.3
West Nile: Non-neuroinvasive	0	0	0	0	0	0	0	1	0	0	0	0	1	0.3
Zika: Congenital	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Zika: Non-congenital	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Total	0	0	0	0	0	0	1	1	0	0	0	0	2	0.6

GASTROINTESTINAL ILLNESSES

One hundred thirty-eight gastrointestinal illnesses were reported in 2018. The annual rate of all gastrointestinal illnesses was 44.8 cases per 100,000 residents of McHenry County. Table 2 summarizes the frequency of incident cases of all gastrointestinal illnesses for 2018.

Table 2. Gastrointestinal Illnesses

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2018 Total	2018 Rate
Campylo- bacteriosis	2	0	8	6	6	9	9	3	3	3	4	6	59	19.2
Cholera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
<i>Escherichia coli</i> Infections	4	5	0	3	0	0	0	2	1	3	1	1	20	6.5
<i>S. Paratyphi</i>	0	0	1	0	0	0	0	0	0	0	0	0	1	0.3
Salmonellosis	2	1	7	11	5	3	7	4	5	0	2	2	49	15.9
Shigellosis	1	0	0	1	0	0	1	2	0	0	0	1	6	1.9
Vibriosis**	0	0	0	0	0	0	1	0	0	0	0	0	1	0.3
Yersiniosis	0	0	0	1	0	0	1	0	0	0	0	0	2	0.6
Total	9	6	16	22	11	12	19	11	9	6	7	10	138	44.8

*Toxigenic *Vibrio cholerae* O1 or O139

**Other than toxigenic *Vibrio cholerae* O1 or O139

SEXUALLY TRANSMITTED INFECTIONS (STIs)

Eight hundred thirty-five sexually transmitted infections were reported in 2018. The annual rate of all sexually transmitted infections was 271.1 cases per 100,000 residents of McHenry County. Table 3 summarizes the frequency of incident cases of all sexually transmitted infections for 2018 (AIDS/HIV is also a reportable condition but is excluded from the table to protect patient privacy in line with guidelines from the Office of Health Protection).

Table 3. Sexually Transmitted Infections (STIs)

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2018 Total	2018 Rate
Chancroid	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Chlamydia	82	49	57	48	67	72	57	77	54	64	51	52	730	237.0
Gonorrhea	9	4	4	8	2	7	13	9	9	9	5	9	88	28.6
Syphilis	2	1	2	0	0	2	1	5	2	0	1	1	17	5.5
Total	93	54	63	56	69	81	71	91	65	73	57	62	835	271.1

TICK BORNE DISEASES

Thirty-four tick borne diseases were reported in 2018. The annual rate of all tick borne diseases was 11.0 cases per 100,000 residents of McHenry County. Table 4 summarizes the frequency of incident cases of all tick borne diseases for 2018.

Table 4. Tick Borne Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2018 Total	2018 Rate
Anaplasmosis	0	0	0	0	0	1	0	0	0	0	0	0	1	0.3
Babesiosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Ehrlichiosis	0	0	0	0	0	1	0	0	0	0	0	0	1	0.3
Lyme Disease	0	1	0	0	2	11	7	2	4	2	0	0	29	9.4
Spotted Fever Rickettsioses	0	0	0	0	0	0	1	0	0	0	0	0	1	0.3
Typhus Murine	0	0	0	0	0	1	0	1	0	0	0	0	2	0.6
Total	0	1	0	0	2	14	8	3	4	2	0	0	34	11.0

VACCINE PREVENTABLE DISEASES

Ninety-seven vaccine preventable diseases were reported in 2018. The annual rate of all vaccine preventable diseases was 31.5 cases per 100,000 residents of McHenry County. Table 5 summarizes the frequency of incident cases of all vaccine preventable diseases for 2018.

Table 5. Vaccine Preventable Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2018 Total	2018 Rate
Chickenpox	4	3	1	2	2	1	1	2	3	0	2	0	21	6.8
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Haemophilus influenzae*	0	1	0	0	2	1	0	1	1	1	1	0	8	2.6
Hepatitis A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Hepatitis B	1	2	0	2	0	1	1	2	1	1	1	0	12	3.9
Influenza A, variant virus	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Influenza with ICU admission	14	5	6	3	0	1	0	0	0	0	0	1	30	9.7
Influenza, death in ≤ 18 year olds	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Mumps	2	1	0	0	0	0	0	0	0	2	1	0	6	1.9
Neisseria meningitidis**	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Pertussis	6	4	3	0	1	1	0	0	0	3	0	2	20	6.5
Rubella	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Smallpox	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Tetanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Total	27	16	10	7	5	5	2	5	5	7	5	3	97	31.5

*Haemophilus influenzae, meningitis, & other invasive disease

**Neisseria meningitidis, meningitis and invasive disease

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OTHER DISEASES

One hundred ninety other diseases were reported in 2018. The annual rate of all other diseases was 61.7 cases per 100,000 residents of McHenry County. Table 6 summarizes the frequency of incident cases of all other diseases for 2018 (only other diseases that have had a case reported from 2013 – 2018 are included in Table 6).

Table 6. Other Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2018 Total	2018 Rate
Acute Flaccid Myelitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Botulism: foodborne	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Creutzfeldt-Jakob Disease	0	0	0	1	0	0	0	0	0	0	0	0	1	0.3
Cryptosporidiosis	3	2	0	1	0	2	2	4	2	1	0	0	17	5.5
Cyclosporiasis	0	0	0	0	2	5	11	0	0	0	0	0	18	5.8
Hemolytic Uremic Syndrome, Post-diarrheal	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Hepatitis C	7	6	6	5	8	6	3	8	4	10	4	4	71	23.0
Histoplasmosis	0	0	0	1	0	0	0	1	0	0	0	0	2	0.6
Legionellosis	2	0	0	1	0	8	1	1	3	2	3	1	22	7.1
Listeriosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Malaria	0	0	0	0	0	0	0	0	0	1	1	0	2	0.6
MRSA community cluster	0	0	1**	0	0	0	0	0	0	0	0	0	1	0.3
MRSA in infants under 61 days	1	0	0	1	0	0	0	1	1	0	0	0	4	1.3
Q Fever	0	0	0	0	0	0	0	1	0	0	0	0	1	0.3
Rabies, Human (Potential Exposure)	0	1	1	0	5	2	10	10	3	0	0	3	35	11.4
Streptococcal Infections, Group A, Invasive Disease	3	1	1	0	0	0	2	1	0	0	0	2	10	3.2
Streptococcus Pneumoniae, Invasive Disease*	0	0	0	0	0	0	0	0	0	1	0	0	1	0.3
Toxic Shock Syndrome (due to staph aureus)	1	0	0	1	1	0	0	0	0	0	0	0	3	1.0
Tuberculosis	0	0	0	1	0	0	0	0	0	1	0	0	2	0.6
Total	17	10	8	12	16	23	29	27	13	16	8	10	190	61.7

*In children less than 5 years

**Case related to a cluster outside McHenry County